

# OAI@AKM



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AKM 2003

# Sadržaj



- † što je OAI?
- † povijest nastanka
- † važnost za AKM zajednicu
- † primjena protokola
  - † primjeri
  - † zaključci

# Herbert Van de Sompel:



- ‡ Initially, OAI was about transforming scholarly communication.
  - ‡ The idea was to **increase the impact** of communication through preprints by making repositories **interoperable**.
- ‡ Later ... our work became more generic.
  - ‡ Preprint repositories were not the only **islands on the Web**. So were digitized library collections. There was a clear **need for interoperability at the resource discovery level for all kinds of materials**.

# OAI-PMH...



## † Open Archives Protocol for Metadata Harvesting

- † generički protokol za pobiranje metapodataka
- † mehanizam s malo prepreka (low barrier)

† ≠ Open Access Initiative

† ≠ OAIS

# Povijest



## † 1999. (sastanak u Santa Feu)

- ☛ počinje diskusija - kako postići interoperabilnost preprint repozitorija?
- ☛ moguće rješenje: MH

## † OAI-PMH verzije:

† First Alpha Release 2000

† 1.0 (Beta) Release 2001

† 2.0 (Production) Release 2002

# ...povijest



† u inicijalnom testiranju sudjelovali su:

- ✎ CIMI
- ✎ Ex Libris
- ✎ Los Alamos National Laboratory
- ✎ NASA
- ✎ OCLC
- ✎ UKOLN Resource Discovery Network
- ✎ Virginia Tech
- ✎ 7 sveučilišta (US & GB)

# Kako funkcionira



↓ pobiranje metapodataka (*metadata harvesting*)

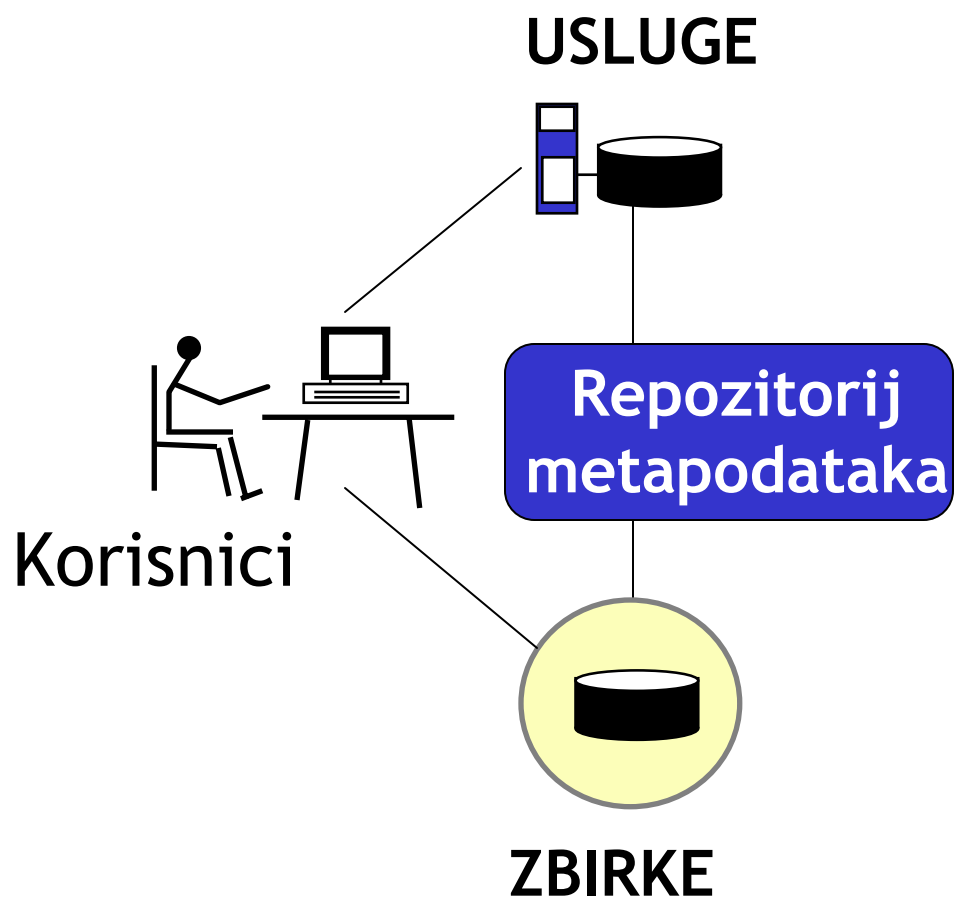
↓ **davatelji podataka** (*data providers*) -  
repozitoriji

↓ sadrže izvore i metapodatke i voljni su ih  
dijeliti

↓ **pružatelji usluga** (*service providers*) - harvesteri

↓ pobiru metapodatke i organiziraju ih kako bi pružili  
korisnicima usluge na višoj razini

# Arhitektura



Prema: "The NSDL Metadata Strategy," A presentation by William Y. Arms and Diane I. Hillman. URL: [Http://nsdl.comm.nsdl.org/allprojects01/metastrategy.ppt](http://nsdl.comm.nsdl.org/allprojects01/metastrategy.ppt)



# Metapodaci



- ‡ metapodaci moraju biti iskazani u XML-u
- ‡ nekvalificirani Dublin Core - obavezan
- ‡ OAI omogućuje i potiče uporabu ostalih shema metapodataka, specifičnih za pojedine zajednice (MARC, EAD, MODS...)

# OAI zapisi i setovi



‡ 3 dijela:

🐱 HEADER

- jedinstveni ID
- datestamp

🐱 METADATA

🐱 ABOUT

- podaci o metapodacima
- npr. podaci o uvjetima korištenja, autorstvu i dr.

‡ selektivno pobiranje

🐱 prema setovima/datestamp-u

# ≠ Z39.50



‡ različiti modeli interoperabilnosti - svaki ima svoje područje primjene

‡ distribuirano pretraživanje ≠ pobiranje metapodataka

‡ oboje su dijelovi "*interoperability toolkit for libraries*"

‡ prednosti OAI-PMH:

‡ jednostavnije ga je implementirati

‡ kod široko distribuiranih sadržaja i zbirke koje ne podržavaju z39.50

‡ za pronalaženje izvora (*resource discovery*)

# Usporedba sa Z39.50 (T. Cole)



	Z39.50	OAI
Content (Objects)	Distributed	Distributed
World View	Bibliographic	Bibliographic
Object Presentation	Data provider	Data provider
Searching is	Distributed	Centralized
Search done by	Data provider	Service provider
Metadata searched is	Up to date	Stale
Semantic Mapping	When searching	Metadata delivery

# Primjenjivači OAI protokola



† eprint zajednica

† arhivi, knjižnice,  
muzeji (*"memory  
institutions"*)

† *subject gateway*-i

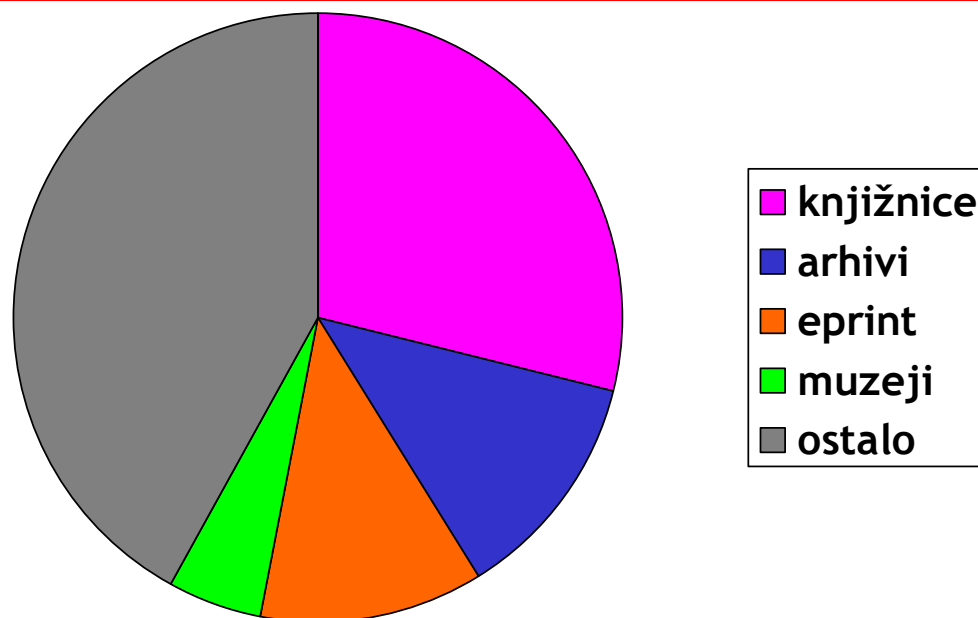
† izdavači

† industrija (dot.coms &  
dot.nets)

"using OAI...  
differently"

H. Van De Sompel

# Open Archives Forum - iskustva u Europi



† **vrste predmeta:** metapodaci, cjeloviti tekst, slike, sažeci, video, neobrađeni podaci, softver...

† **vrste sadržaja:** disertacije, članci, preprinti, predavanja, zbornici, snimke...

# ...primjenjivači OAI protokola



† eprint zajednica : davatelji podataka i pružatelji usluga

† arhivi, knjižnice, muzeji (*"memory institutions"*)

† *subject gateway*-i

† izdavači

† industrija (dot.coms & dot.nets)

# Eprint arhiv: E-LIS (url)



**E-LIS**

[Home](#) - [About](#) - [Browse](#) - [Search](#) - [Register](#) - [Deposit](#) - [Help](#)  
[Archive FAQ](#) - [Submission Policy](#) - [Copyright](#) - [Credits](#)

## Welcome to E-LIS

E-Prints in Library and Information Science

Search the Titles, Abstracts or Keywords



# ...E-LIS...



By now, there are 293 articles in our Archive.

**For all users**

<p><u><a href="#">Simple Search</a></u> Search the archive using the most common fields.</p>	<p><u><a href="#">Advanced Search</a></u> Search the archive using a more range of fields.</p>
<p><u><a href="#">Browse</a></u> <b>Browse the archive by <u><a href="#">Subject</a></u> or <u><a href="#">Year</a></u>.</b></p>	<p><u><a href="#">Latest Additions</a></u> View items added to the archive in the past week.</p>

**For registered users**

<p><u><a href="#">Deposit</a></u> Registered users may submit documents to the archive.</p>	<p><u><a href="#">Get E-mail Alerts</a></u> services require that you first <u><a href="#">register</a></u></p>
<p><u><a href="#">Register</a></u> <b>You should register first before submitting documents to the archive. Submission of documents to this archive is limited to the LIS community. Forgot your user password? Go to <u><a href="#">registration</a></u> and make a new one.</b></p>	

# ...E-LIS



[Home](#) - [About](#) - [Browse](#) - [Classification Schema](#) - [Search](#) - [Register](#) - [Deposit](#) - [Help](#)

E-LIS

[Archive FAQ](#) - [Submission Policy](#) - [Copyright](#) - [Credits](#)

## **Preobrazba ili odumiranje : budućnost znanstvenih časopisa = Metamorphosis or Extinction : the Future of Scholarly Journals [Croatian language]**

Melinščak Zlodi, Iva (2003) Preobrazba ili odumiranje : budućnost znanstvenih časopisa = Metamorphosis or Extinction : the Future of Scholarly Journals [Croatian language]. Technical Report.

Full text available as:

[PowerPoint](#)

### **Abstract**

[Croatian abstract]

ArXiv, PubMed Central, Dspace, Eprints, Biomed Central, PLoS... novi igrači na sceni. Nove inicijative i novi izazovi tradicionalnim oblicima komuniciranja u znanosti: Open Archives Initiative, SPARC, Public Library of Science, Budapest Open Access Initiative... Mogu li časopisi u sadašnjem obliku i ubuduće ostati dominantni medij diseminacije znanstvenih informacija? Što će se dogoditi sa sustavom "peer review", autorskim pravima, evaluacijom znanstvenog rada utemeljenoj na citiranosti i faktoru utjecaja? Kakve uloge mogu u novim okolnostima zauzeti autori, izdavači i knjižničari?

[English abstract]

ArXiv, PubMed Central, Dspace, Eprints, Biomed Central, PLoS... new players on the scene. New initiatives and new challenges to traditional forms of scholarly communication: Open Archives Initiative, SPARC, Public Library of Science, Budapest Open Access Initiative...

Are journals as we know them today continuing to be the dominant medium for dissemination of scientific information? What will happen with peer-review system, copyright regulations and evaluation of scientific

# Pružatelj usluga: OAister



Home

Search

View Institutions

Help

Use this form to find digital resources ([what is a digital resource?](#)) from many institutions ([which institutions are available?](#)).

**Why do I sometimes get duplicate records?**  
**Why do I sometimes have trouble accessing digital objects?**  
Check out [this explanation](#).

See [help](#) for search tips.

## Search all fields [\(help\)](#)

Use a word or phrase, e.g., diploma\*, fancy dress

and ☒ or ☐

## Search within particular fields [\(help\)](#)

Use a word or phrase, e.g., diploma\*, fancy dress

Title:  and

Author/  
Creator:  and

Subject:  and

Resource  
Type:

## Choose sorting of results [\(help\)](#)

e.g., results in date descending order, from 2002 to 1999

☒ title ☐ author/creator

☐ date descending ☐ date ascending

[http://oaister.  
umld.umich.edu](http://oaister.umld.umich.edu)

oko 2 mil. zapisa  
iz 239 institucija

“no dead ends”

# Pružatelj usluga: Citebase



.eprints.org sites at Southampton serving Open Archives

*citebase* **Search**

<http://citebase.eprints.org>

[Help and About](#) | [Impact Health-Warning](#)

Citebase is currently only an experimental demonstration. Users are cautioned not to use it for academic evaluation yet. Citation coverage and analysis is incomplete and hit coverage and analysis is both incomplete and noisy.

[Metadata](#) [Citation](#) [OAI Identifier](#)

Author(s) ([explanation](#))   
Title/Abstract Keywords   
Publication title   
Creation Date from  until

Rank matches by:   [Explanation](#)

- Citations (Author)
- Citations (Paper)**
- Date (Creation)
- Date (Update)
- Hits (Author)
- Hits (Paper)

# Primjenjivači OAI protokola



† eprint zajednica

† ***baštinske institucije***

# Knjižnice



† posebne zbirke

† u pravilu digitalne/digitalizirane građe

† npr. digitalne slike, notni zapisi,  
elektronički ocjenski radovi...

† subject gateway-i



# Kongresna knjižnica



The Library of Congress

## American Memory

Historical Collections for

**Collection Finder**  
Select collections to search

**Search**  
Search for items across all collections

**Learning Page**  
Engaging and learning with American Memory

**Today in November**

**What's New**

historical collections.

FAQs

How To View

Copyright & Restrictions

Technical Information

Chat with a Librarian  
M-F, 2-4 PM, EST

Search example of the day:  
[wild flowers](#)

**CIVIL WAR TREASURES**  
FROM THE NEW-YORK HISTORICAL SOCIETY

**21 zbirka**

**preko 120 000 zapisa**

**karte, filmovi, note, plesni priručnici, fotografije**

prednosti OAI-a:

- 👤 **kombiniranje** opće zajedničke sheme (interoperabilnost kroz područja) i specifičnih bogatih shema
- 👤 **integriranje** izvora (u svrhu pronalaženja) iz različitih institucija s različitim tradicijama opisivanja

# NDLTD



## Electronic Thesis/Dissertation OAI Union Catalog

[Home](#)  
[Search](#)  
[Browse](#)  
[About](#)  
[How to Join](#)

### Related Sites

- [NDLTD](#)
- [Theses.org](#)
- [Open Archives Initiative](#)

### Current Sites

1. [Wirtschaftsuniversität Wien](#)
2. [NDLTD ETD Individuals](#)
3. [North Carolina State University](#)
4. [University of British](#)

### Some Recent Additions to our Collection

- Assessing the impact of XML/EDI with real option valuation, *Voshmgir, Shermin, Wirtschaftsuniversität Wien, 2001* [[More Info](#)]
- Unbundling, *Peroutka, Stephan, Wirtschaftsuniversität Wien, 2002* [[More Info](#)]
- Demokratie und EU, *Rumler-Korinek, Elisabeth, Wirtschaftsuniversität Wien, 2000* [[More Info](#)]

### Quick Search

Query :

### Quick Browse

Institution :  Year :   
Sort By :

*te: This is purely an experimental system !*



# RDN



Text only ResourceFinder  GO Resource Discovery Network HELP

**browse** ▶▶▶

**ABOUT**  
**FEEDBACK**  
**NEWS**  
**PUBLICATIONS**  
**PROJECTS**  
**PARTNERS**  
**CASE STUDIES**  
**TRAINING**  
**VACANCIES**

**French government**  
Blair is hosting an Anglo-French summit in London with President, Prime Minister and other French leaders. The RDN to find the French [03-11-24]  
[more topical stories](#)

**Virtual Training Suite**

**Behind the Headlines**

**RDN Include**

**HEALTH & MED.**  
[Allied Health](#) | [Animal Health](#)

**HOSPITALITY, LEISURE, SPORT & TOURISM**

**new Altis user survey - you could win £100!**  
▶ [New edition of Spotlight now available online](#)  
▶ [EEVL launches free OneStep Industry News and OneStep Jobs News](#)  
[...more RDN news](#)

**AIIS** **artifact** **BIOME** **EEVL** **HUMBUL** **PSigate** **SOSIG**

**JISC** A JISC service with support from ESRC & AHRB. Copyright © 1999-2001 Credits | Disclaimer | Feedback

“RDN Internet Resource Catalogues must support the OAI Protocol for Metadata Harvesting ... RDN Internet Resource Catalogues must support the mandatory 'oai\_dc' unqualified Dublin Core record format.”

# Muzeji



## ‡ CIMI

‡ projekt “Metadata harvesting”

‡ CIMI OAI v1.0 Repository

- source code & implementation package

# AMOL



**AMOL**

Australian Museums &  
Galleries Online



## Open Collections

**1. Enter a keyword:**

Seek records

[Search help](#)

(separate multiple keywords with a comma)

**2. Refine your search** (optional) :

Limit the search to collection:

All Collections (default value)

Search in:  for

Search in:  for

Search in:  for

Search in:  for

Find records with:

**3. Format result display:**

list of records

Results displayed per page:

**4. Start your search:**

Seek records

# AMOL - Open collections



- za pronalaženje izvora i osnovne informacije o muzejskim predmetima
- 500 000 zapisa iz 92 zbirke iz australskih muzeja

## • pobiranje metapodataka

- trenutno metapodataka uključenih u HTML
- prijelaz na XML i OAI
  - zbog lakšeg dijeljenja metapodataka
  - zbog mogućnosti korištenja metapodataka u nove svrhe

# UIUC



## UIUC Digital Gateway to Cultural Heritage Materials

[Search](#) [Search History](#) [Bookbag](#) [Browse By Type](#) [About Collections](#) [About Project](#) [Help](#)

### Simple Search

Search

Look for:  anywhere in all collections  
☐ Limit to online primary sources

### Advanced Search

Clear

Search

Must contain:  in

in

in

☐ Limit to online primary sources

Date ranges:   
21st Century (2000 - )  
20th Century (1900 - 1999)  
>>> 1975-1999  
>>> 1950-1974

Types: ☒ Images and Video  
☒ Museum and Archives Collection  
☒ Text, Sheet Music, and Websites

## MH PROJECT

- 39 davatelja podataka
- knjižnice, muzeji, arhivi...
- preko 500 000 zapisa
- tekst, note, slike, artefakti...
- granularnost (predmet/zbirka)
- korisnici očekuju da svi linkovi upućuju na digitalne predmete



## UIUC Digital Gateway to Cultural Heritage Materials

[Search](#) [Search History](#) [Bookbag](#) [Browse By Type](#) [About Collections](#) [About Project](#) [Help](#)

### Full Record Display

[search results](#) | [add to bookbag](#)

**Collection:** [Ackerman Archives](#)

#### Title:

- Aboard the Touranine. Photos of guns and friends. One enscribed "Jim Eaton" and two enscribed "Aboard S.S. La Touraine"

#### Creator:

- Harvey Ladew Williams II

#### Publisher:

- Ackerman Archives (Rich Ackerman)

#### Description:

- The Harvey Ladew Williams II Papers, 1917-1918

#### Coverage:

- (uiLib)2000

#### Date:

- June 18, 2002

#### Source:

- Page 1

#### Online access/Unique ID:

- <http://www.hray.com/wwi/images/bph-p01.jpg>

# UIUC



Institute of Museum and Library Services

## Digital Collections and Content

Working toward interoperable digital content.

[About the Project](#)

[How to Participate](#)

[Resources](#)

[Research](#)

[Contact Us](#)

We understand our community best by understanding how freely knowledge is shared as a community possession.

*Dr. David Carr  
University of North Carolina*

### Welcome.

IMLS Digital Collections and Content (DCC) is a three-year effort at the University of Illinois to build a national infrastructure for **adaptable, interoperable, and sustainable** digital collections. Launched in January 2003, the project will achieve these goals:

Research best practices for sharing metadata about diverse digital content and for supporting the interests of diverse user communities.

Grant collections with digital  
item-level [metadata](#) sharable via  
[Metadata Harvesting](#).  
Tools for integrated access  
data about diverse digital  
of diverse user communities.  
news, presentations, and other

Do you have a National Leadership Grant from the IMLS? We'd like to hear from you. Please e-mail [Sarah Shreeves](#) or telephone us at 217.244.7809.



# Arhivi




- ‡ Prom, Christopher J. **Reengineering archival access through the OAI protocols.** / Library Hi Tech. 21(2003)2; str.199-209.
- ‡ MacKenzie, George; Kristiansson, Göran. **How Real Archivists can learn to love OAI** : A review of the potential for using the Open Archive Initiative Protocol for Metadata Harvesting in conventional archives. A report for the Open Archives Forum. 2003.  
[Http://www.oaforum.org/otherfiles/oaf\\_d44\\_cser2\\_kenzie\\_krist.pdf](http://www.oaforum.org/otherfiles/oaf_d44_cser2_kenzie_krist.pdf)



# Ostali - Internet Archive





[Web](#) | [Moving Images](#) | [Texts](#) | [Audio](#) | [Patron Info](#)

[Internet Archive Home](#) | [Forums](#) | [FAQs](#) | [Contributions](#) | [About IA](#) | [Terms, Privacy, & Copyright](#) | [Contact](#)

Search:  All Media Types GO! Anonymous User ([login](#) or [join us](#))

**Announcements** [\(more\)](#)

[Bookmobiles in Egypt and Uganda](#)

**Now hiring at the Internet Archive...**

[Wired News On Internet Archive's Software Preservation Plans](#)

**This Just In** [\(more\)](#)

[Case 15 - Keep It All To Yourself \[mia017\]](#)  
1.03 hours ago

[Derek Trucks Band: 2003-11-15](#)  
1.34 hours ago

[An Idiot's Guide To Getting A Date](#)  
17.87 hours ago


[Simon Comission Report](#)  
2.94 days ago

Add your own [concert](#), [audio](#)

**Archive Collections** RSS

The Internet Archive is building a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public.


[Browse the Archive](#)

 Take Me Back

[Advanced Search](#) | [About the Wayback Machine](#)

**Moving Images:** [Prelinger Archives](#) | [Computer Chronicles](#) | [SIGGRAPH Electronic Theater](#) | [Netcafé](#) | [World at War](#) | [Open Source Movies](#) | [Independent News](#) | [Election 2004](#)


From the staff pick list:



**[Psychological Operations in Support of Internal Defense and Development Assistance Programs \(Part I\)](#)**  
Military training film showing psychological operations in "Hostland," a mythical (probably Latin American) country, designed to aid the host government in gaining the support of the population.

**Audio:** [Live Music Archive](#) | [Netlabels](#) | [Monotonik](#) | [Democracy Now](#) | [Open Source Audio](#) | [Kahvi Collective](#) | [8bitpeoples](#) | [Enough Records](#) | [Kikapu](#) | [Subsource](#) | [Language Lab](#) | [Commie](#) | [Thinner](#) | [Nishi](#) | [Ogredung](#) | [Camomille](#) | [Miasmah](#)

From the staff pick list:



**[Mermen: 1998-03-20](#)**

# Zaključak



- † interoperabilnost - dogovori na nekoliko razina (C. R. Arms):
  - † **tehnička**: OAI-PMH
  - † **sadržajna**: sheme metapodataka, vrijednosti elemenata metapodataka
  - † **organizacijska**: razvoj davatelja usluga (konzorciji)
- † razvoj “tržišta metapodataka”  
(vlasništvo i autorstvo nad metapodacima!)

# Što dalje s OAI protokolom?



👤 razvoj novih alata, npr.

🐱 ZMARCO

🐱 DP9

👤 razvoj novih shema metapodataka

👤 održavanje registara (npr. OAI Registry UIUC)

👤 razvoj inovativnih pružatelja usluga!!!



THE  
END